

ABSTRACT

An apparatus (10, 200, 250, 250') for filtering particulates from a gas, comprising a casing (22, 24, 202) defining an inner cavity having an inlet (30, 210, 260) adapted to receive a flow of gas, such that gas enters the inner cavity, and an outlet (40, 231, 281) through which gas exits the inner cavity. A filter (32, 213, 262) is associated with the outlet (40, 231, 281) such that gas exiting the inner cavity through the outlet (40, 231, 281) passes through the filter (32, 213, 262). The filter (32, 213, 262) is adapted to retain particulates beyond a predetermined size from a gas flowing therethrough. A back-pulse generator (42, 223, 270) is positioned downstream of the filter (32, 213, 262). The back-pulse generator (42, 223, 270) is adapted to cause a reverse flow of gas through the outlet (40, 231, 281) and into the inner cavity of the casing, so as to dislodge a portion of the particulates retained in the filter (32, 213, 262) into the inner cavity.